

## **Enhanced Preamble to Enable Low Power Detection**

### **ABSTRACT OF THE DISCLOSURE**

System and method for enabling the low power detection of a transmitted sequence. A preferred embodiment comprises the replacement of a portion of a preamble (after the application of any needed scrambling) with an expected sequence field (such as the expected sequence field 410). The expected sequence field may contain a sequence of values known at a receiver or a periodic sequence. The addition of the expected sequence field does not affect the length of the preamble and is compatible with existing receivers. The detection of the expected sequence field may be performed with analog circuitry, allowing receivers to place digital circuitry to sleep and reduce power